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12.12.	ΑP	Wilson, et al. (1990) "Hunter Syndrome: Isolation of an Iduronate-2-Sulfatase CDNA and Analysis of Patient DNA." Proc. Natl. Acad. Sci. USA 87:8531-8535.							
<i>۴.1</i> 4.	AQ	Bielicki, et al. (1993) "Recombinant Human Iduronate-2-Sulphatase: Correction of Mucopolysaccharidosis - Type II Fibroblasts and Characterization of The Purified Enzyme." Biochem. 289:241-246.							
4.4.	AR	Bielicki, et al. (1990) "Human liver iduronate -2-sulphatase." Biochem J. 271:75-86.							
	AS	Nelson, et al. (1989) "Cystic fibrosis: prenatal diagnosis and carrier detection by DNA analysis." Med. J. Aust. 151:126 131.							
بو بو.	АТ	Stein, et al. (1989) "Cloning and Expression of Human Arylsulfatase A." $J.$ Biol. Chem. $264(2):1252-1259$.							
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re.H.	AP	Peters, et al. (1990) "Phylogenetic Conservation of Arylsulfatases." <i>J. Biol. Chem. 265(6)</i> :3374-3381.								
بر ۱۹۰	AQ	Yen, et al. (1988) "The Human X-Linked Steroid Sulfatase Gene a Y-Encoded Pseudogene: Evidence for an Inversion of the Y Chromosome during Primate Evolution." Cell 55:1123-1135.								
rere.	AR	Robertson, et al. (1988) "Human Glucosamine-6-sulfatase cDNA Reveals Homology with Steroid Sulfatase." Biochem. Biophys. Res. Commun. 157(1):218-224.								
بو يه.	AS	Yen, et al. (1987) "Cloning and Expression of Steroid Sulfatase cDNA and the Frequent Occurrence of Deletions in STS Deficiency: Implications for X-Y Interchange." Cell 49:443-454								
بوبو.	ΑT		Stein, et al. (1989) "Cloning and Expression of Human Steroid-sulfatase." <i>J. Biol. Chem. 264(23)</i> :13865-13872.							
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re.re.	AP	Sasaki, et al. (1988) "cDNA cloning, nucleotide sequence and expression of the gene for arylsulfatase in the sea urchin (Hemicentrous pulcherrimus) embryo." Eur. J. Biochem. 177:9-13.									
re re	AQ	Anson, et al. (1992) "Correction of human mucopolysaccharidosis type VI fibroblasts with recombinant N-acetylgalactosamine-4-sulphatase." Biochem J. $284:289-794$.									
re.re.	AR	Darnell, et al. (1986) Molecular Cell Biology, Scientific American Books, New York, NY:957-964.									
بو.ه.	AS	Ferrara, et al. (1987) FEBS Letters 226:47-52.									
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16.16	AQ	Gottesman (1987) Meth. Enzymol. 151:3-8.								
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